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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/753,116	01/07/2004	Michael J. Kubek	225849	5202
23460 7590 10/30/2006 LEYDIG VOIT & MAYER, LTD			EXAMINER	
			AZPURU, CARLOS A	
TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780		E 4900	ART UNIT	PAPER NUMBER
			1615	

DATE MAILED: 10/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
	10/753,116	KUBEK, MICHAEL J.				
	Office Action Summary	Examiner	Art Unit			
		Carlos A. Azpuru	1615			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)[又]	Responsive to communication(s) filed on <u>11 Security</u>	entember 2006				
·		2b)⊠ This action is non-final.				
	Since this application is in condition for allowar		osecution as to the merits is			
,—	closed in accordance with the practice under E					
Disposit	ion of Claims	· · · · ·				
4) 🛛	Claim(s) <u>1-6</u> is/are pending in the application.					
-,-	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-6</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers					
9)	The specification is objected to by the Examine	r.				
	The drawing(s) filed on is/are: a) acce		Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	a) ☐ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents have been received.					
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
	application from the International Bureau		ed in this National Stage			
* 5	See the attached detailed Office action for a list	. , ,	ed.			
·		or the defined depice not receive	.u.			
Attachmen	t(s)					
1) Notic	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) ☐ Notice of Informal P				
Paper No(s)/Mail Date <u>01072004</u> . 6) Other:						

Application/Control Number: 10/753,116

Art Unit: 1615

DETAILED ACTION

Receipt is acknowledged of the amendment filed 09/11/2006.

Information Disclosure Statement

Applicant is thanked for the copies of references provided. All have been indicated as considered on a newly initialed copy of the PTOL-1449.

The rejection under 35 USC 112, first paragraph for scope of enablement is withdrawn in view of applicant's amendment.

After review of the cited prior art, the following rejection is maintained (with some modification) in this action:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,360,610 (Tice et al) in view of EP 0 256 726 (EP'726).

Tice et al discloses a method of implanting microspheres directly into the central nervous system (see Abstract). The bioactive agents included are neurotransmitters,

Art Unit: 1615

neuropeptides and neurotrophic factors (see col. 4, lines 44-50). Polymers used in the implanted microspheres are listed at claims 1, and 9-11. It should be noted that these are biodegradable. Tice et al further disclose a microsphere content of 10 to 80 % of bioactive (see claim 7). This clearly overlaps with the percentage set out in the claims of the instant claims. Microparticulate implanted drug delivery systems are art recognized for their local delivery and are used for their local drug delivery properties. Therefore, the property of having a "size and shape sufficient to prevent dispersion of the microstructure from the central nervous system locus is art recognized (see discussion of microspheres at col 3, lines 10-67). Implantation is in the central nervous systm (see col. 4, lines 1-15). The use of cannulas to deliver bioactive to the central nervous system is well recognized as shown at col. 1, lines 50-53. Tice et al differs from the instantly claimed invention in that TRH is not specifically disclosed for implantation into the central nervous system.

EP'726 discloses microencapsulated TRH (see Abstract and claims). EP'726 also uses some of the same polymers to construct their microencapsulated formulations (see claims 9-12). . Selection of a central locus is taught by the Tice reference, as well as implantation to such a central nervous site using the same biodegradable microstructures, while the specific TRH microstructures are taught by EP'726. EP'726 further recognizes that shape of the implant is a function of several well known variables (See page 4, lines 39-52). Applicant has not shown any criticality in the use of non-spherical microstructures, and further, seems to support an equivalence in using any number of shapes in the specification at page 3, lines 15-21. As such, those of ordinary

skill in the art would found it well within their skill to use the method of implanting biodegradable microparticles disclosed by Tice et al, and further to more specifically use microencapsulated TRH of EP'726 as one of the CNS implants of non-spherical shape with a reasonable expectation of beneficial results. While the references do not specifically recite the up regulation of glutamate and/or aspartate, they teach the implantation method using the instantly claimed microstructures. Since the same method of implanting the same microstructures of TRH is suggested by the combination of these references, one would expect similar physiological effects as a result. As such, those of ordinary skill would expect similar increases in the release of glutamate and/or aspartate as a result of the prolonged release of TRH from these microstructures within the central nervous system. There are no unusual and/or unexpected results which would rebut prima facie obviousness. The instant method of increasing glutamate and/or aspartate release in the central nervous system would have therefore been obvious given the teachings of Tice et al in view of EP'726.

Page 4

The article by Mori et al (Epilepsia: 33(6):994-1000, 1992) is cited for its disclosure of a liposomally entrapped TRF derivative which is administered intraperitoneally.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos A. Azpuru whose telephone number is (571) 272-0588. The examiner can normally be reached on Tu-Fri, 6:30 am - 5:00 pm.

Art Unit: 1615

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Carlos A. Azpuru

Primary Examiner

Art Unit 1615